

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.002
Model:              OLS  Adj. R-squared:    -0.001
Method:             Least Squares  F-statistic:    0.5135
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.474
Time:               20:56:03  Log-Likelihood:   -7987.7
No. Observations:   335  AIC:              1.598e+04
Df Residuals:       333  BIC:              1.599e+04
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t    P>|t|   [0.025   0.975]
-----
const         -8.236e+08  4.22e+08   -1.950   0.052  -1.65e+09   7.04e+06
# of past defaults  1.946e+08  2.72e+08    0.717   0.474  -3.4e+08   7.29e+08
=====
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```
=====
Omnibus:          291.175  Durbin-Watson:      2.412
Prob(Omnibus):    0.000  Jarque-Bera (JB):    17811.958
Skew:             -3.116  Prob(JB):             0.00
Kurtosis:         38.174  Cond. No.              2.72
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.9053011880289863
LM P-Value: 0.6359402961575973
F Statistic: 0.44981257633600347
F P-Value: 0.6381357504703624

Rainbow Test Results:

Rainbow Statistic: 3.302759235763397
Rainbow P-Value: 3.9575287927180915e-14

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.000

Model:

OLS

Adj. R-squared:

-0.005

Method:

Least Squares

F-statistic:

0.0001247

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.991

Time:

20:56:03

Log-Likelihood:

-5215.6

No. Observations:

218

AIC:

1.044e+04

Df Residuals:

216

BIC:

1.044e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-6.82e+08

7.48e+08

-0.911

0.363

-2.16e+09

7.93e+08

Adjusted savings: gross savings (% of GNI)

3.838e+05

3.44e+07

0.011

0.991

-6.73e+07

6.81e+07

Omnibus:

192.462

Durbin-Watson:

1.622

Prob(Omnibus):

0.000

Jarque-Bera (JB):

9186.903

Skew:

-2.953

Prob(JB):

0.00

Kurtosis:

34.249

Cond. No.

40.3

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.6666616566665291
LM P-Value: 0.7165331054870197
F Statistic: 0.3297521155196053
F P-Value: 0.7194650016564887

Rainbow Test Results:

Rainbow Statistic: 4.216482383346846
Rainbow P-Value: 4.13688094924355e-13

Regression Summary:

OLS Regression Results			
=====			
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002
Model:	OLS	Adj. R-squared:	-0.002
Method:	Least Squares	F-statistic:	0.4892
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.485
Time:	20:56:04	Log-Likelihood:	-5215.4
No. Observations:	218	AIC:	1.043e+04
Df Residuals:	216	BIC:	1.044e+04
Df Model:	1		
Covariance Type:	nonrobust		

	coef	std err	t	P> t	[0.025	0.975]

const	-8.63e+08	4.85e+08	-1.778	0.077	-1.82e+09	9.38e+07
Adjusted savings: net national savings (% of GNI)	2.353e+07	3.36e+07	0.699	0.485	-4.28e+07	8.99e+07
=====						
Omnibus:	192.240	Durbin-Watson:	1.627			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9118.159			
Skew:	-2.950	Prob(JB):	0.00			
Kurtosis:	34.129	Cond. No.	17.4			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.5463156209261573
LM P-Value: 0.7609726887003558
F Statistic: 0.2700755768625302
F P-Value: 0.7635803778166639

Rainbow Test Results:

Rainbow Statistic: 4.219469533002331
Rainbow P-Value: 4.0396400976481136e-13

Regression Summary:

OLS Regression Results

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=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.237
Model:              OLS  Adj. R-squared:    0.210
Method:             Least Squares  F-statistic:    8.699
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.00636
Time:               20:56:04  Log-Likelihood:  -741.87
No. Observations:   30  AIC:                1488.
Df Residuals:       28  BIC:                1491.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -1.608e+09  2.6e+09  -0.619  0.541  -6.93e+09  3.72e+09
Banking Crisis Dummy -2.969e+10  1.01e+10  -2.949  0.006  -5.03e+10  -9.07e+09
=====
```

```
=====
Omnibus:          2.226  Durbin-Watson:      1.661
Prob(Omnibus):    0.329  Jarque-Bera (JB):    1.060
Skew:             -0.032  Prob(JB):      0.589
Kurtosis:         3.919  Cond. No.      4.03
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.651837363330563
LM P-Value: 0.41945653924453474
F Statistic: 0.6218939972225466
F P-Value: 0.43697073157049726

Rainbow Test Results:

Rainbow Statistic: 3.1768759849759998
Rainbow P-Value: 0.02136684757119743

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.004				
Model:	OLS	Adj. R-squared:	-0.000				
Method:	Least Squares	F-statistic:	0.9915				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.320				
Time:	20:56:04	Log-Likelihood:	-6366.3				
No. Observations:	270	AIC:	1.274e+04				
Df Residuals:	268	BIC:	1.274e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	5.156e+07	3.57e+08	0.144	0.885	-6.52e+08	7.55e+08	
Broad money growth (annual %)	-1.298e+07	1.3e+07	-0.996	0.320	-3.86e+07	1.27e+07	
=====							
Omnibus:	124.351	Durbin-Watson:	1.511				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14911.715				
Skew:	-0.718	Prob(JB):	0.00				
Kurtosis:	39.379	Cond. No.	38.2				
=====							

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.579878463434244
LM P-Value: 0.27528751133083523
F Statistic: 1.2879127153540622
F P-Value: 0.2775539493680842

Rainbow Test Results:

Rainbow Statistic: 3.397080898732424
Rainbow P-Value: 3.6467462887301495e-12

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.1818				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.670				
Time:	20:56:05	Log-Likelihood:	-5881.6				
No. Observations:	249	AIC:	1.177e+04				
Df Residuals:	247	BIC:	1.177e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-2.505e+08	3e+08	-0.836	0.404	-8.4e+08	3.39e+08	
Broad money to total reserves ratio	7.322e+06	1.72e+07	0.426	0.670	-2.65e+07	4.11e+07	
=====							
Omnibus:	115.851	Durbin-Watson:	1.511				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	11802.904				
Skew:	-0.757	Prob(JB):	0.00				
Kurtosis:	36.695	Cond. No.	18.7				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.18054881921148247
LM P-Value: 0.9136804281816538
F Statistic: 0.08925148197870399
F P-Value: 0.914645138027055

Rainbow Test Results:

Rainbow Statistic: 3.361735407557369
Rainbow P-Value: 3.576384922914313e-11

Regression Summary:

OLS Regression Results

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=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.004
Method:             Least Squares  F-statistic:    0.0001455
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.990
Time:               20:56:05  Log-Likelihood:    -6317.2
No. Observations:   265  AIC:              1.264e+04
Df Residuals:       263  BIC:              1.265e+04
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t    P>|t|    [0.025    0.975]
-----
const  -6.163e+08  4.1e+08   -1.502    0.134  -1.42e+09   1.92e+08
CA      4.072e+05  3.38e+07    0.012    0.990  -6.61e+07   6.69e+07
=====
```

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=====
Omnibus:           243.585  Durbin-Watson:           1.669
Prob(Omnibus):      0.000  Jarque-Bera (JB):      15610.828
Skew:               -3.218  Prob(JB):              0.00
Kurtosis:           40.046  Cond. No.              14.9
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.1782623117758195
LM P-Value: 0.5548091180207155
F Statistic: 0.5850630967530097
F P-Value: 0.5577968284363619

Rainbow Test Results:

Rainbow Statistic: 3.7580839578616736
Rainbow P-Value: 1.3681944405861998e-13

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.003				
Model:	OLS	Adj. R-squared:	-0.015				
Method:	Least Squares	F-statistic:	0.1680				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.683				
Time:	20:56:05	Log-Likelihood:	-1401.4				
No. Observations:	58	AIC:	2807.				
Df Residuals:	56	BIC:	2811.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-2.783e+09	1.85e+09	-1.503	0.139	-6.49e+09	9.27e+08	
Central government debt, total (% of GDP)	1.245e+07	3.04e+07	0.410	0.683	-4.84e+07	7.33e+07	
=====							
Omnibus:	93.748	Durbin-Watson:	2.153				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	1770.255				
Skew:	-4.737	Prob(JB):	0.00				
Kurtosis:	28.353	Cond. No.	112.				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.34770771661989497
LM P-Value: 0.8404197090409141
F Statistic: 0.16585571584989064
F P-Value: 0.847590576803126

Rainbow Test Results:

Rainbow Statistic: 3.7208798649389703
Rainbow P-Value: 0.0004777418052014509

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.004

Model:

OLS

Adj. R-squared:

0.000

Method:

Least Squares

F-statistic:

1.011

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.315

Time:

20:56:06

Log-Likelihood:

-6571.9

No. Observations:

276

AIC:

1.315e+04

Df Residuals:

274

BIC:

1.316e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-6.42e+08

3.48e+08

-1.845

0.066

-1.33e+09

4.29e+07

Claims on central government, etc. (% GDP)

1.525e+07

1.52e+07

1.006

0.315

-1.46e+07

4.51e+07

Omnibus:

265.437

Durbin-Watson:

1.733

Prob(Omnibus):

0.000

Jarque-Bera (JB):

18980.711

Skew:

-3.471

Prob(JB):

0.00

Kurtosis:

43.029

Cond. No.

24.9

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.218107487805926
LM P-Value: 0.3298709558416346
F Statistic: 1.1058864021550414
F P-Value: 0.33239520064563677

Rainbow Test Results:

Rainbow Statistic: 3.826867568918099
Rainbow P-Value: 2.0023159906885363e-14

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.006

Model:

OLS

Adj. R-squared:

0.002

Method:

Least Squares

F-statistic:

1.484

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.224

Time:

20:56:06

Log-Likelihood:

-6319.2

No. Observations:

268

AIC:

1.264e+04

Df Residuals:

266

BIC:

1.265e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

5.466e+07

3.21e+08

0.170

0.865

-5.77e+08

6.86e+08

Claims on private sector (annual growth as % of broad money)

-1.766e+07

1.45e+07

-1.218

0.224

-4.62e+07

1.09e+07

Omnibus:

127.024

Durbin-Watson:

1.526

Prob(Omnibus):

0.000

Jarque-Bera (JB):

15373.366

Skew:

-0.777

Prob(JB):

0.00

Kurtosis:

40.072

Cond. No.

27.5

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.709603120840359
LM P-Value: 0.7013125975784347
F Statistic: 0.35176128513832783
F P-Value: 0.7037759814789737

Rainbow Test Results:

Rainbow Statistic: 3.4545500129504148
Rainbow P-Value: 2.3507853353225998e-12

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000			
Model:	OLS	Adj. R-squared:	-0.004			
Method:	Least Squares	F-statistic:	0.01531			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.902			
Time:	20:56:07	Log-Likelihood:	-6310.9			
No. Observations:	266	AIC:	1.263e+04			
Df Residuals:	264	BIC:	1.263e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-3.407e+08	5.71e+08	-0.597	0.551	-1.46e+09	7.83e+08
Consumer price index (2010 = 100)	-9.632e+05	7.78e+06	-0.124	0.902	-1.63e+07	1.44e+07
=====						
Omnibus:	238.161	Durbin-Watson:	1.822			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	25236.522			
Skew:	-2.885	Prob(JB):	0.00			
Kurtosis:	50.367	Cond. No.	140.			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.2578930818526193
LM P-Value: 0.5331531603048489
F Statistic: 0.6248078259600867
F P-Value: 0.5361570494249672

Rainbow Test Results:

Rainbow Statistic: 2.7686253354239816
Rainbow P-Value: 5.572061362615002e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.034				
Model:	OLS	Adj. R-squared:	0.015				
Method:	Least Squares	F-statistic:	1.751				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.192				
Time:	20:56:07	Log-Likelihood:	-1251.0				
No. Observations:	51	AIC:	2506.				
Df Residuals:	49	BIC:	2510.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-4.894e+08	2.09e+09	-0.234	0.816	-4.7e+09	3.72e+09	
Cyclically adjusted balance (% of potential GDP)	4.933e+08	3.73e+08	1.323	0.192	-2.56e+08	1.24e+09	
=====							
Omnibus:	30.914	Durbin-Watson:	1.577				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	122.246				
Skew:	-1.406	Prob(JB):	2.85e-27				
Kurtosis:	10.044	Cond. No.	7.68				
=====							

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.5080590140429213
LM P-Value: 0.4704669781448986
F Statistic: 0.731299189645839
F P-Value: 0.48656789235883435

Rainbow Test Results:

Rainbow Statistic: 7.079333157761967
Rainbow P-Value: 5.612953273346228e-06

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.127				
Model:	OLS	Adj. R-squared:	0.109				
Method:	Least Squares	F-statistic:	7.132				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0102				
Time:	20:56:07	Log-Likelihood:	-1248.4				
No. Observations:	51	AIC:	2501.				
Df Residuals:	49	BIC:	2505.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-6.205e+08	1.61e+09	-0.385	0.702	-3.86e+09	2.62e+09	
Cyclically adjusted primary balance (% of potential GDP)	1.079e+09	4.04e+08	2.671	0.010	2.67e+08	1.89e+09	
=====							
Omnibus:	31.221	Durbin-Watson:	1.596				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	96.439				
Skew:	-1.567	Prob(JB):	1.14e-21				
Kurtosis:	8.963	Cond. No.	4.40				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.1473641696720898
LM P-Value: 0.34174785331848195
F Statistic: 1.0549428745487657
F P-Value: 0.3561457743549704

Rainbow Test Results:

Rainbow Statistic: 6.441520327240439
Rainbow P-Value: 1.3023722427803183e-05

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.074				
Model:	OLS	Adj. R-squared:	0.070				
Method:	Least Squares	F-statistic:	0.5865				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.445				
Time:	20:56:08	Log-Likelihood:	-5771.9				
No. Observations:	245	AIC:	1.155e+04				
Df Residuals:	243	BIC:	1.155e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	-4.302e+08	2.47e+08	-1.740	0.082	-9.15e+08	5.43e+07	
Debt service on external debt, total (TDS, current US\$)	0.1943	0.254	0.766	0.444	-0.303	0.692	
=====							
Omnibus:	280.430	Durbin-Watson:	1.471				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	26162.044				
Skew:	-4.447	Prob(JB):	0.00				
Kurtosis:	52.837	Cond. No.	6.46e+09				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 6.46e+09. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 76.14388591268668
LM P-Value: 2.6373049469828484e-18
F Statistic: 109.57829023126295
F P-Value: 2.0807501065643932e-21

Rainbow Test Results:

Rainbow Statistic: 3.870155820489807
Rainbow P-Value: 3.8514947814309274e-13

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.079				
Model:	OLS	Adj. R-squared:	0.075				
Method:	Least Squares	F-statistic:	2.031				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.155				
Time:	20:56:08	Log-Likelihood:	-5590.4				
No. Observations:	235	AIC:	1.118e+04				
Df Residuals:	233	BIC:	1.119e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	8.278e+08	7.69e+08	1.076	0.282	-6.79e+08	2.33e+09	
Domestic credit to private sector (% of GDP)	-4.401e+07	3.09e+07	-1.425	0.154	-1.05e+08	1.65e+07	
=====							
Omnibus:	208.746	Durbin-Watson:	1.545				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14033.834				
Skew:	-2.913	Prob(JB):	0.00				
Kurtosis:	40.407	Cond. No.	60.6				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 14.262912672259867
LM P-Value: 0.0007995541196351316
F Statistic: 7.495332524369241
F P-Value: 0.000700912271074778

Rainbow Test Results:

Rainbow Statistic: 6.000327651487223
Rainbow P-Value: 5.974844854819067e-20

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.000

Model:

OLS

Adj. R-squared:

-0.003

Method:

Least Squares

F-statistic:

0.1271

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.722

Time:

20:56:08

Log-Likelihood:

-7987.9

No. Observations:

335

AIC:

1.598e+04

Df Residuals:

333

BIC:

1.599e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-7.481e+08

4.88e+08

-1.532

0.126

-1.71e+09

2.12e+08

Dummy for past default

2.209e+08

6.2e+08

0.356

0.722

-9.98e+08

1.44e+09

Omnibus:

292.224

Durbin-Watson:

2.410

Prob(Omnibus):

0.000

Jarque-Bera (JB):

17849.629

Skew:

-3.136

Prob(JB):

0.00

Kurtosis:

38.206

Cond. No.

3.01

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.09633262327927661
LM P-Value: 0.7562758244184209
F Statistic: 0.09578504709509929
F P-Value: 0.7571411734969686

Rainbow Test Results:

Rainbow Statistic: 3.3546580109611632
Rainbow P-Value: 1.956045110907372e-14

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.006

Model:

OLS

Adj. R-squared:

0.002

Method:

Least Squares

F-statistic:

1.450

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.230

Time:

20:56:09

Log-Likelihood:

-6282.7

No. Observations:

263

AIC:

1.257e+04

Df Residuals:

261

BIC:

1.258e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

8.703e+07

6.77e+08

0.129

0.898

-1.25e+09

1.42e+09

Exports of goods and services (% of GDP)

-2.172e+07

1.8e+07

-1.204

0.230

-5.72e+07

1.38e+07

Omnibus:

210.438

Durbin-Watson:

1.816

Prob(Omnibus):

0.000

Jarque-Bera (JB):

11240.421

Skew:

-2.604

Prob(JB):

0.00

Kurtosis:

34.601

Cond. No.

71.6

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.9651710756693683
LM P-Value: 0.37434197120352775
F Statistic: 0.978690241795572
F P-Value: 0.377183056472572

Rainbow Test Results:

Rainbow Statistic: 2.8692594883234195
Rainbow P-Value: 2.2306551715168416e-09

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.001

Model:

OLS

Adj. R-squared:

-0.004

Method:

Least Squares

F-statistic:

0.1116

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.739

Time:

20:56:09

Log-Likelihood:

-4887.5

No. Observations:

204

AIC:

9779.

Df Residuals:

202

BIC:

9786.

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-7.917e+08

4.56e+08

-1.736

0.084

-1.69e+09

1.07e+08

Exports of goods and services (annual % growth)

8.068e+06

2.41e+07

0.334

0.739

-3.95e+07

5.57e+07

Omnibus:

175.736

Durbin-Watson:

1.676

Prob(Omnibus):

0.000

Jarque-Bera (JB):

7410.114

Skew:

-2.825

Prob(JB):

0.00

Kurtosis:

31.980

Cond. No.

19.9

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.33318835804108504
LM P-Value: 0.8465430865822939
F Statistic: 0.1644127961407611
F P-Value: 0.8485057164344597

Rainbow Test Results:

Rainbow Statistic: 3.917015797049979
Rainbow P-Value: 2.215902752686772e-11

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.002
Model:	OLS	Adj. R-squared:	-0.001
Method:	Least Squares	F-statistic:	0.6280
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.429
Time:	20:56:10	Log-Likelihood:	-6283.2
No. Observations:	263	AIC:	1.257e+04
Df Residuals:	261	BIC:	1.258e+04
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]

const	-7.869e+08	4.22e+08	-1.866	0.063	-1.62e+09	4.35e+07
External balance on goods and services (% of GDP)	-1.758e+07	2.22e+07	-0.792	0.429	-6.13e+07	2.61e+07
=====						
Omnibus:	201.225	Durbin-Watson:	1.836			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10804.944			
Skew:	-2.415	Prob(JB):	0.00			
Kurtosis:	34.027	Cond. No.	22.6			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.912791030861985
LM P-Value: 0.2330748772553692
F Statistic: 1.4559071763386426
F P-Value: 0.23508338975156745

Rainbow Test Results:

Rainbow Statistic: 2.760971242110578
Rainbow P-Value: 7.530795668103005e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.004				
Method:	Least Squares	F-statistic:	0.03787				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.846				
Time:	20:56:10	Log-Likelihood:	-5573.4				
No. Observations:	236	AIC:	1.115e+04				
Df Residuals:	234	BIC:	1.116e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-5.447e+07	4.11e+08	-0.133	0.895	-8.64e+08	7.55e+08	
External debt stocks (% of GNI)	-8.885e+05	4.57e+06	-0.195	0.846	-9.88e+06	8.11e+06	
=====							
Omnibus:	117.207	Durbin-Watson:	1.422				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	13052.775				
Skew:	-0.845	Prob(JB):	0.00				
Kurtosis:	39.394	Cond. No.	130.				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.45257760233541
LM P-Value: 0.17794357004564323
F Statistic: 1.7296484584733678
F P-Value: 0.17961595295218627

Rainbow Test Results:

Rainbow Statistic: 4.423466308070383
Rainbow P-Value: 7.932481937628522e-15

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.004
Model:              OLS  Adj. R-squared:    -0.001
Method:             Least Squares  F-statistic:    0.8652
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.353
Time:               20:56:10  Log-Likelihood:    -5653.8
No. Observations:   237  AIC:              1.131e+04
Df Residuals:       235  BIC:              1.132e+04
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const      1.141e+09  2.1e+09   0.543  0.588  -3e+09  5.28e+09
Food Price Index -2.186e+07  2.35e+07  -0.930  0.353  -6.81e+07  2.44e+07
=====
```

```
=====
Omnibus:      229.079  Durbin-Watson:      1.732
Prob(Omnibus): 0.000  Jarque-Bera (JB):    13706.176
Skew:         -3.430  Prob(JB):      0.00
Kurtosis:     39.618  Cond. No.      520.
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.3058930328745917
LM P-Value: 0.19148486327473016
F Statistic: 1.655110134637411
F P-Value: 0.19329986558511386

Rainbow Test Results:

Rainbow Statistic: 5.498769547790623
Rainbow P-Value: 1.5306687782948565e-18

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.023			
Model:	OLS	Adj. R-squared:	0.018			
Method:	Least Squares	F-statistic:	5.119			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0246			
Time:	20:56:11	Log-Likelihood:	-5344.9			
No. Observations:	224	AIC:	1.069e+04			
Df Residuals:	222	BIC:	1.070e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-4.17e+08	3.97e+08	-1.051	0.295	-1.2e+09	3.65e+08
Food Price Index (% change)	-8.679e+09	3.84e+09	-2.262	0.025	-1.62e+10	-1.12e+09
=====						
Omnibus:	224.591	Durbin-Watson:	1.717			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	13028.295			
Skew:	-3.607	Prob(JB):	0.00			
Kurtosis:	39.659	Cond. No.	10.3			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.12033747526991334
LM P-Value: 0.9416056358705548
F Statistic: 0.0593948144613489
F P-Value: 0.9423496852390139

Rainbow Test Results:

Rainbow Statistic: 6.236854396246454
Rainbow P-Value: 8.438792817946082e-20

Regression Summary:

OLS Regression Results

=====

Dep. Variable: Sum_GDPcycle R-squared: 0.001

Model: OLS Adj. R-squared: -0.003

Method: Least Squares F-statistic: 0.1548

Date: Sat, 26 Aug 2023 Prob (F-statistic): 0.694

Time: 20:56:11 Log-Likelihood: -7028.1

No. Observations: 295 AIC: 1.406e+04

Df Residuals: 293 BIC: 1.407e+04

Df Model: 1

Covariance Type: nonrobust

=====

	coef	std err	t	P> t	[0.025	0.975]
const	-4.134e+08	3.51e+08	-1.178	0.240	-1.1e+09	2.77e+08
Foreign direct investment, net inflows (% of GDP)	-1.389e+07	3.53e+07	-0.393	0.694	-8.34e+07	5.56e+07

=====

Omnibus: 245.758 Durbin-Watson: 1.782

Prob(Omnibus): 0.000 Jarque-Bera (JB): 17272.560

Skew: -2.764 Prob(JB): 0.00

Kurtosis: 40.077 Cond. No. 11.1

=====

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.917717233206572

LM P-Value: 0.6320045935393134

F Statistic: 0.4556096164229261

F P-Value: 0.6345112883277868

Rainbow Test Results:

Rainbow Statistic: 2.74037906538664

Rainbow P-Value: 1.2762870010379626e-09

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001			
Model:	OLS	Adj. R-squared:	-0.002			
Method:	Least Squares	F-statistic:	0.006775			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.934			
Time:	20:56:11	Log-Likelihood:	-7287.9			
No. Observations:	306	AIC:	1.458e+04			
Df Residuals:	304	BIC:	1.459e+04			
Df Model:	1					
Covariance Type:	HC3					
=====						
	coef	std err	z	P> z	[0.025	0.975]

const	-4.736e+08	4.27e+08	-1.108	0.268	-1.31e+09	3.64e+08
GDP (constant 2015 US\$)	-0.0011	0.013	-0.082	0.934	-0.027	0.025
=====						
Omnibus:	226.510	Durbin-Watson:	1.814			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	16003.186			
Skew:	-2.281	Prob(JB):	0.00			
Kurtosis:	38.133	Cond. No.	1.79e+11			
=====						

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

[2] The condition number is large, 1.79e+11. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 166.1341944436828
LM P-Value: 5.17073991743244e-38
F Statistic: 361.0946571965634
F P-Value: 1.2885148737075522e-53

Rainbow Test Results:

Rainbow Statistic: 2.7982453729748804
Rainbow P-Value: 2.93432211730931e-10

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.006			
Model:	OLS	Adj. R-squared:	0.003			
Method:	Least Squares	F-statistic:	1.766			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.185			
Time:	20:56:12	Log-Likelihood:	-7123.7			
No. Observations:	299	AIC:	1.425e+04			
Df Residuals:	297	BIC:	1.426e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-8.754e+08	4.06e+08	-2.156	0.032	-1.67e+09	-7.62e+07
GDP growth (annual %)	8.117e+07	6.11e+07	1.329	0.185	-3.91e+07	2.01e+08
=====						
Omnibus:	238.298	Durbin-Watson:	1.832			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	15894.868			
Skew:	-2.591	Prob(JB):	0.00			
Kurtosis:	38.341	Cond. No.	8.73			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.322503581032939
LM P-Value: 0.31309400736508797
F Statistic: 1.158599941491551
F P-Value: 0.3153448453074839

Rainbow Test Results:

Rainbow Statistic: 2.7440412211400975
Rainbow P-Value: 9.47828909418776e-10

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.01324				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.908				
Time:	20:56:12	Log-Likelihood:	-7497.9				
No. Observations:	315	AIC:	1.500e+04				
Df Residuals:	313	BIC:	1.501e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-6.393e+08	1.11e+09	-0.578	0.564	-2.81e+09	1.54e+09	
GDP growth China (annual %)	1.258e+07	1.09e+08	0.115	0.908	-2.03e+08	2.28e+08	
=====							
Omnibus:	260.995	Durbin-Watson:	1.831				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	19211.296				
Skew:	-2.766	Prob(JB):	0.00				
Kurtosis:	40.857	Cond. No.	37.9				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.1193426223190777
LM P-Value: 0.5713968447527253
F Statistic: 0.5563179666457356
F P-Value: 0.5738837871612366

Rainbow Test Results:

Rainbow Statistic: 2.781638773728023
Rainbow P-Value: 2.0915629017538656e-10

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000			
Model:	OLS	Adj. R-squared:	-0.003			
Method:	Least Squares	F-statistic:	0.001846			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.966			
Time:	20:56:12	Log-Likelihood:	-7497.9			
No. Observations:	315	AIC:	1.500e+04			
Df Residuals:	313	BIC:	1.501e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-4.99e+08	5.1e+08	-0.979	0.328	-1.5e+09	5.04e+08
GDP growth USA (annual %)	-7.108e+06	1.65e+08	-0.043	0.966	-3.33e+08	3.18e+08
=====						
Omnibus:	261.210	Durbin-Watson:	1.831			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	19211.058			
Skew:	-2.770	Prob(JB):	0.00			
Kurtosis:	40.855	Cond. No.	5.66			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.2524664785779238
LM P-Value: 0.5346017299621746
F Statistic: 0.622745200464875
F P-Value: 0.5371351647460241

Rainbow Test Results:

Rainbow Statistic: 2.7929857528887636
Rainbow P-Value: 1.795181214496867e-10

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.047			
Model:	OLS	Adj. R-squared:	0.044			
Method:	Least Squares	F-statistic:	2.248			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.135			
Time:	20:56:13	Log-Likelihood:	-7234.1			
No. Observations:	304	AIC:	1.447e+04			
Df Residuals:	302	BIC:	1.448e+04			
Df Model:	1					
Covariance Type:	HC3					
=====						
	coef	std err	z	P> z	[0.025	0.975]

const	2.532e+08	3.95e+08	0.641	0.521	-5.2e+08	1.03e+09
GDP per capita (constant 2015 US\$)	-1.764e+05	1.18e+05	-1.499	0.134	-4.07e+05	5.42e+04
=====						
Omnibus:	198.429	Durbin-Watson:	1.805			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	13271.985			
Skew:	-1.855	Prob(JB):	0.00			
Kurtosis:	35.156	Cond. No.	9.61e+03			
=====						

Notes:

- [1] Standard Errors are heteroscedasticity robust (HC3)
- [2] The condition number is large, 9.61e+03. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 24.75261601003479
LM P-Value: 4.217331377214756e-06
F Statistic: 13.340388927847943
F P-Value: 2.811170709645513e-06

Rainbow Test Results:

Rainbow Statistic: 2.709547241527299
Rainbow P-Value: 1.0638948895867488e-09

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.000
Model:	OLS	Adj. R-squared:	-0.004
Method:	Least Squares	F-statistic:	0.03669
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.848
Time:	20:56:13	Log-Likelihood:	-5977.1
No. Observations:	250	AIC:	1.196e+04
Df Residuals:	248	BIC:	1.197e+04
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]

const	-7.635e+08	9.62e+08	-0.794	0.428	-2.66e+09	1.13e+09
General government final consumption expenditure (% of GDP)	1.131e+07	5.91e+07	0.192	0.848	-1.05e+08	1.28e+08
=====						
Omnibus:	195.627	Durbin-Watson:	1.716			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10019.136			
Skew:	-2.490	Prob(JB):	0.00			
Kurtosis:	33.611	Cond. No.	42.3			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.4310396207545835
LM P-Value: 0.1798701980126904
F Statistic: 1.718518796978545
F P-Value: 0.1814687414270829

Rainbow Test Results:

Rainbow Statistic: 3.024515514415375
Rainbow P-Value: 1.0233803044200188e-09

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.003						
Model:	OLS	Adj. R-squared:	-0.002						
Method:	Least Squares	F-statistic:	0.6466						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.422						
Time:	20:56:14	Log-Likelihood:	-4511.2						
No. Observations:	188	AIC:	9026.						
Df Residuals:	186	BIC:	9033.						
Df Model:	1								
Covariance Type:	nonrobust								
=====									
		coef	std err	t	P> t	[0.025	0.975]		

const		-8.987e+08	5.1e+08	-1.761	0.080	-1.91e+09	1.08e+08		
General government final consumption expenditure (annual % growth)		3.216e+07	4e+07	0.804	0.422	-4.67e+07	1.11e+08		
=====									
Omnibus:	158.039	Durbin-Watson:	1.608						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	5734.654						
Skew:	-2.699	Prob(JB):	0.00						
Kurtosis:	29.513	Cond. No.	13.9						
=====									

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.3088088621013996
LM P-Value: 0.8569253836874376
F Statistic: 0.15219051875158407
F P-Value: 0.8589320565080428

Rainbow Test Results:

Rainbow Statistic: 4.266201842918266
Rainbow P-Value: 1.1450881697711127e-11

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.002

Model:

OLS

Adj. R-squared:

-0.002

Method:

Least Squares

F-statistic:

0.5363

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.465

Time:

20:56:14

Log-Likelihood:

-6114.8

No. Observations:

256

AIC:

1.223e+04

Df Residuals:

254

BIC:

1.224e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

1.354e+08

9.64e+08

0.140

0.888

-1.76e+09

2.03e+09

Gross capital formation (% of GDP)

-2.738e+07

3.74e+07

-0.732

0.465

-1.01e+08

4.62e+07

Omnibus:

206.711

Durbin-Watson:

1.786

Prob(Omnibus):

0.000

Jarque-Bera (JB):

11856.165

Skew:

-2.597

Prob(JB):

0.00

Kurtosis:

35.932

Cond. No.

69.4

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.8934487328605201
LM P-Value: 0.6397202123417877
F Statistic: 0.4430355243543117
F P-Value: 0.6425815662889482

Rainbow Test Results:

Rainbow Statistic: 2.9084585549964266
Rainbow P-Value: 2.290183664544383e-09

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.005
Method:             Least Squares  F-statistic:    0.06347
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.801
Time:               20:56:14  Log-Likelihood:    -4170.1
No. Observations:   174  AIC:              8344.
Df Residuals:       172  BIC:              8351.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t  P>|t|  [0.025  0.975]
-----
const          -8.364e+08  7.29e+08   -1.148   0.253  -2.27e+09  6.02e+08
Gross debt (% of GDP)  2.467e+06  9.79e+06    0.252   0.801  -1.69e+07  2.18e+07
=====
```

```
=====
Omnibus:          172.015  Durbin-Watson:      1.704
Prob(Omnibus):    0.000  Jarque-Bera (JB):    7939.388
Skew:             -3.325  Prob(JB):           0.00
Kurtosis:         35.417  Cond. No.           115.
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.522880607908643
LM P-Value: 0.7699418365355226
F Statistic: 0.25770713816814006
F P-Value: 0.7731211335711742

Rainbow Test Results:

Rainbow Statistic: 6.831997127727245
Rainbow P-Value: 5.711023470580886e-17

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002				
Model:	OLS	Adj. R-squared:	-0.002				
Method:	Least Squares	F-statistic:	0.5077				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.477				
Time:	20:56:15	Log-Likelihood:	-6023.7				
No. Observations:	252	AIC:	1.205e+04				
Df Residuals:	250	BIC:	1.206e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-3.552e+08	4.92e+08	-0.722	0.471	-1.32e+09	6.14e+08	
Gross domestic savings (% of GDP)	-1.554e+07	2.18e+07	-0.713	0.477	-5.85e+07	2.74e+07	
=====							
Omnibus:	194.695	Durbin-Watson:	1.769				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10183.108				
Skew:	-2.435	Prob(JB):	0.00				
Kurtosis:	33.759	Cond. No.	30.2				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.9936381316585616
LM P-Value: 0.36905150459659125
F Statistic: 0.9928065251483558
F P-Value: 0.37199720015615034

Rainbow Test Results:

Rainbow Statistic: 2.9766952659765686
Rainbow P-Value: 1.4632542697832132e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.004				
Method:	Least Squares	F-statistic:	0.06026				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.806				
Time:	20:56:15	Log-Likelihood:	-5974.6				
No. Observations:	250	AIC:	1.195e+04				
Df Residuals:	248	BIC:	1.196e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.181e+09	2.65e+09	-0.446	0.656	-6.39e+09	4.03e+09	
Gross national expenditure (% of GDP)	5.897e+06	2.4e+07	0.245	0.806	-4.14e+07	5.32e+07	
=====							
Omnibus:	197.355	Durbin-Watson:	1.791				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10806.881				
Skew:	-2.501	Prob(JB):	0.00				
Kurtosis:	34.819	Cond. No.	792.				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 2.4802558493844664
LM P-Value: 0.28934720091977945
F Statistic: 1.2375238930943284
F P-Value: 0.2918939466356465

Rainbow Test Results:

Rainbow Statistic: 2.9053694600592954
Rainbow P-Value: 3.6019852569624297e-09

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.001

Model:

OLS

Adj. R-squared:

-0.003

Method:

Least Squares

F-statistic:

0.2138

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.644

Time:

20:56:15

Log-Likelihood:

-6283.3

No. Observations:

263

AIC:

1.257e+04

Df Residuals:

261

BIC:

1.258e+04

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

-2.431e+08

1.08e+09

-0.226

0.821

-2.35e+09

1.87e+09

Imports of goods and services (% of GDP)

-8.63e+06

1.87e+07

-0.462

0.644

-4.52e+07

2.79e+07

Omnibus:

208.847

Durbin-Watson:

1.823

Prob(Omnibus):

0.000

Jarque-Bera (JB):

11093.337

Skew:

-2.574

Prob(JB):

0.00

Kurtosis:

34.398

Cond. No.

105.

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 10.16795959046059
LM P-Value: 0.006195204244282022
F Statistic: 5.228114065838951
F P-Value: 0.005941921843394832

Rainbow Test Results:

Rainbow Statistic: 2.8422416570337132
Rainbow P-Value: 3.0186320811943588e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.005				
Method:	Least Squares	F-statistic:	0.006554				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.936				
Time:	20:56:16	Log-Likelihood:	-4887.5				
No. Observations:	204	AIC:	9779.				
Df Residuals:	202	BIC:	9786.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-7.592e+08	4.75e+08	-1.600	0.111	-1.69e+09	1.76e+08	
Imports of goods and services (annual % growth)	2.421e+06	2.99e+07	0.081	0.936	-5.65e+07	6.14e+07	
=====							
Omnibus:	175.567	Durbin-Watson:	1.677				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	7369.533				
Skew:	-2.822	Prob(JB):	0.00				
Kurtosis:	31.899	Cond. No.	17.4				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.31058487807720514
LM P-Value: 0.8561647648694622
F Statistic: 0.1532420338488208
F P-Value: 0.8580221868504077

Rainbow Test Results:

Rainbow Statistic: 3.972989844889486
Rainbow P-Value: 1.4393934023469223e-11

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.004			
Model:	OLS	Adj. R-squared:	-0.000			
Method:	Least Squares	F-statistic:	0.9411			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.333			
Time:	20:56:16	Log-Likelihood:	-6171.0			
No. Observations:	260	AIC:	1.235e+04			
Df Residuals:	258	BIC:	1.235e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-6.557e+08	4.01e+08	-1.637	0.103	-1.44e+09	1.33e+08
Inflation, consumer prices (annual %)	2.634e+07	2.71e+07	0.970	0.333	-2.71e+07	7.98e+07
=====						
Omnibus:	229.931	Durbin-Watson:	1.795			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	23297.267			
Skew:	-2.821	Prob(JB):	0.00			
Kurtosis:	49.029	Cond. No.	19.3			
=====						

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.7505049944114739
LM P-Value: 0.6871157620757092
F Statistic: 0.37199644990551234
F P-Value: 0.6897272578837992

Rainbow Test Results:

Rainbow Statistic: 2.706217902394543
Rainbow P-Value: 1.6460517300614087e-08

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.001				
Model:	OLS	Adj. R-squared:	-0.007				
Method:	Least Squares	F-statistic:	0.1549				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.695				
Time:	20:56:17	Log-Likelihood:	-2923.7				
No. Observations:	123	AIC:	5851.				
Df Residuals:	121	BIC:	5857.				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.205e+09	6.69e+08	-1.800	0.074	-2.53e+09	1.2e+08	
Interest payments (% of revenue)	2.03e+07	5.16e+07	0.394	0.695	-8.18e+07	1.22e+08	
=====							
Omnibus:	125.248	Durbin-Watson:	1.817				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	3070.830				
Skew:	-3.312	Prob(JB):	0.00				
Kurtosis:	26.565	Cond. No.	18.8				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.5415252184688006
LM P-Value: 0.46266010487338083
F Statistic: 0.7615072828346762
F P-Value: 0.46920507721271076

Rainbow Test Results:

Rainbow Statistic: 1.4605095978127687
Rainbow P-Value: 0.07243667419672896

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.018
Method:             Least Squares  F-statistic:    0.02643
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.871
Time:               20:56:17  Log-Likelihood:    -1363.3
No. Observations:   56  AIC:                2731.
Df Residuals:       54  BIC:                2735.
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef    std err          t      P>|t|   [0.025    0.975]
-----
const          -8.154e+08  1.54e+09   -0.529    0.599  -3.91e+09   2.27e+09
Net debt (% of GDP)  3.369e+06  2.07e+07    0.163    0.871  -3.82e+07   4.49e+07
=====
```

```
=====
Omnibus:          52.234  Durbin-Watson:      1.719
Prob(Omnibus):    0.000  Jarque-Bera (JB):    641.030
Skew:             -2.000  Prob(JB):          6.34e-140
Kurtosis:         19.085  Cond. No.          93.1
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.31884325974143657
LM P-Value: 0.8526367860332482
F Statistic: 0.15174516618903072
F P-Value: 0.8595791640806335

Rainbow Test Results:

Rainbow Statistic: 9.94899656486011
Rainbow P-Value: 4.558379229419669e-08

Regression Summary:

OLS Regression Results

=====

Dep. Variable:	Sum_GDPcycle	R-squared:	0.005
Model:	OLS	Adj. R-squared:	-0.001
Method:	Least Squares	F-statistic:	0.8960
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.345
Time:	20:56:17	Log-Likelihood:	-4523.3
No. Observations:	189	AIC:	9051.
Df Residuals:	187	BIC:	9057.
Df Model:	1		
Covariance Type:	nonrobust		

=====

	coef	std err	t	P> t	[0.025	0.975]
const	-5.427e+08	4.69e+08	-1.158	0.249	-1.47e+09	3.82e+08
Net lending/borrowing (overall balance) (% of GDP)	6.118e+07	6.46e+07	0.947	0.345	-6.63e+07	1.89e+08

=====

Omnibus:	183.810	Durbin-Watson:	1.722
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9078.845
Skew:	-3.302	Prob(JB):	0.00
Kurtosis:	36.305	Cond. No.	7.78

=====

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.6695404302987158
LM P-Value: 0.43397419067130183
F Statistic: 0.8288415048702164
F P-Value: 0.43816055475340876

Rainbow Test Results:

Rainbow Statistic: 5.818103415007594
Rainbow P-Value: 6.81950256567529e-16

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.948				
Model:	OLS	Adj. R-squared:	0.921				
Method:	Least Squares	F-statistic:	36.21				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.0265				
Time:	20:56:18	Log-Likelihood:	-89.962				
No. Observations:	4	AIC:	183.9				
Df Residuals:	2	BIC:	182.7				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	5.592e+09	1.71e+09	3.264	0.082	-1.78e+09	1.3e+10	
Net official aid received (current US\$)	-64.0771	10.649	-6.017	0.027	-109.895	-18.259	
=====							
Omnibus:	nan	Durbin-Watson:	2.862				
Prob(Omnibus):	nan	Jarque-Bera (JB):	0.906				
Skew:	1.112	Prob(JB):	0.636				
Kurtosis:	2.299	Cond. No.	2.75e+08				
=====							

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 2.75e+08. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 2.005714423866192
LM P-Value: 0.15670745058629196
F Statistic: 2.0114615959410793
F P-Value: 0.2918837623902782

Rainbow Test Results:

Rainbow Statistic: 0.0
Rainbow P-Value: nan

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.001

Model:

OLS

Adj. R-squared:

-0.003

Method:

Least Squares

F-statistic:

0.2249

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.636

Time:

20:56:18

Log-Likelihood:

-7121.1

No. Observations:

299

AIC:

1.425e+04

Df Residuals:

297

BIC:

1.425e+04

Df Model:

1

Covariance Type:

nonrobust

coef

std err

t

P>|t|

[0.025

0.975]

const

-4.869e+08

3.16e+08

-1.540

0.125

-1.11e+09

1.35e+08

Official exchange rate (LCU per US\$, period average)

1.06e+05

2.23e+05

0.474

0.636

-3.34e+05

5.46e+05

Omnibus:

249.911

Durbin-Watson:

1.817

Prob(Omnibus):

0.000

Jarque-Bera (JB):

18079.215

Skew:

-2.778

Prob(JB):

0.00

Kurtosis:

40.687

Cond. No.

1.45e+03

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 1.45e+03. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 0.039740686938298464

LM P-Value: 0.9803257707056067

F Statistic: 0.019673590330647

F P-Value: 0.9805199538693519

Rainbow Test Results:

Rainbow Statistic: 2.740534317628324

Rainbow P-Value: 9.91462290256257e-10

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.000
Model:              OLS  Adj. R-squared:    -0.003
Method:             Least Squares  F-statistic:    0.08961
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.765
Time:               20:56:19  Log-Likelihood:    -7497.8
No. Observations:   315  AIC:              1.500e+04
Df Residuals:       313  BIC:              1.501e+04
Df Model:            1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t    P>|t|    [0.025    0.975]
-----
const    -3.355e+08  6.75e+08   -0.497    0.619   -1.66e+09   9.92e+08
Oil price -2.451e+06  8.19e+06   -0.299    0.765   -1.86e+07   1.37e+07
=====
```

```
=====
Omnibus:      260.281  Durbin-Watson:      1.831
Prob(Omnibus):    0.000  Jarque-Bera (JB):    19117.867
Skew:           -2.753  Prob(JB):      0.00
Kurtosis:        40.766  Cond. No.      187.
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.7454759859121811
LM P-Value: 0.4178060317818564
F Statistic: 0.8692428454442898
F P-Value: 0.42028170628004125

Rainbow Test Results:

Rainbow Statistic: 2.786191933131098
Rainbow P-Value: 1.9671371080126788e-10

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.007
Model:              OLS  Adj. R-squared:    0.004
Method:             Least Squares  F-statistic:    2.304
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.130
Time:               20:56:19  Log-Likelihood:  -7496.7
No. Observations:   315  AIC:              1.500e+04
Df Residuals:       313  BIC:              1.500e+04
Df Model:           1
Covariance Type:    nonrobust
=====
```

```
=====
              coef  std err      t    P>|t|   [0.025   0.975]
-----
const          -4.645e+08  2.98e+08   -1.557   0.121  -1.05e+09   1.23e+08
Oil price (% change) -1.855e+09  1.22e+09   -1.518   0.130  -4.26e+09   5.5e+08
=====
```

```
=====
Omnibus:          261.444  Durbin-Watson:      1.831
Prob(Omnibus):    0.000  Jarque-Bera (JB):    18895.510
Skew:             -2.780  Prob(JB):              0.00
Kurtosis:         40.533  Cond. No.              4.13
=====
```

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.6073588262463459
LM P-Value: 0.7380974528825259
F Statistic: 0.30136830347140176
F P-Value: 0.7400203605224971

Rainbow Test Results:

Rainbow Statistic: 2.8832720264012277
Rainbow P-Value: 5.349121422484827e-11

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.049
Model:              OLS  Adj. R-squared:    0.043
Method:             Least Squares  F-statistic:    4.371
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.0381
Time:               20:56:19  Log-Likelihood:    -4001.2
No. Observations:   167  AIC:              8006.
Df Residuals:       165  BIC:              8013.
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err          z      P>|z|      [0.025      0.975]
-----
const    -1.549e+09  8.45e+08   -1.833    0.067   -3.21e+09   1.08e+08
PV:GE    -1.832e+09  8.76e+08   -2.091    0.037   -3.55e+09  -1.14e+08
=====
```

```
=====
Omnibus:          147.100  Durbin-Watson:      1.641
Prob(Omnibus):    0.000  Jarque-Bera (JB):    6134.332
Skew:             -2.732  Prob(JB):             0.00
Kurtosis:         32.184  Cond. No.             1.79
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 6.703762949809555
LM P-Value: 0.03501840582851812
F Statistic: 3.429329172039537
F P-Value: 0.034750592565201736

Rainbow Test Results:

Rainbow Statistic: 8.008336588104553
Rainbow P-Value: 1.8862087915361536e-18

Regression Summary:

```

=====
                        OLS Regression Results
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.012
Model:              OLS  Adj. R-squared:    0.006
Method:            Least Squares  F-statistic:    2.157
Date:              Sat, 26 Aug 2023  Prob (F-statistic):    0.144
Time:              20:56:20  Log-Likelihood:   -4428.9
No. Observations:    185  AIC:      8862.
Df Residuals:        183  BIC:      8868.
Df Model:             1
Covariance Type:     nonrobust
=====
```

	coef	std err	t	P> t	[0.025	0.975]

const	-6.417e+08	4.49e+08	-1.429	0.155	-1.53e+09	2.44e+08
Primary net lending/borrowing (primary balance) (% of GDP)	1.018e+08	6.93e+07	1.469	0.144	-3.5e+07	2.39e+08
=====						
Omnibus:	178.535	Durbin-Watson:	1.714			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	8227.226			
Skew:	-3.265	Prob(JB):	0.00			
Kurtosis:	35.011	Cond. No.	6.52			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 1.0661172164105244
LM P-Value: 0.5868074081080845
F Statistic: 0.5274540243762722
F P-Value: 0.5910047102838021

Rainbow Test Results:

Rainbow Statistic: 5.801072815468971
Rainbow P-Value: 1.5137883824373423e-15

Regression Summary:

OLS Regression Results

Dep. Variable:

Sum_GDPcycle

R-squared:

0.066

Model:

OLS

Adj. R-squared:

0.061

Method:

Least Squares

F-statistic:

2.904

Date:

Sat, 26 Aug 2023

Prob (F-statistic):

0.0902

Time:

20:56:20

Log-Likelihood:

-4141.8

No. Observations:

175

AIC:

8288.

Df Residuals:

173

BIC:

8294.

Df Model:

1

Covariance Type:

HC3

coef

std err

z

P>|z|

[0.025

0.975]

const

-1.251e+09

5.72e+08

-2.187

0.029

-2.37e+09

-1.3e+08

Real interest rate (%)

1.121e+08

6.58e+07

1.704

0.088

-1.68e+07

2.41e+08

Omnibus:

109.066

Durbin-Watson:

1.690

Prob(Omnibus):

0.000

Jarque-Bera (JB):

5589.887

Skew:

-1.481

Prob(JB):

0.00

Kurtosis:

30.529

Cond. No.

16.7

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 8.571103003971247
LM P-Value: 0.013766027435945355
F Statistic: 4.42900765219345
F P-Value: 0.01331677357620128

Rainbow Test Results:

Rainbow Statistic: 5.28233370420337
Rainbow P-Value: 1.4514004631918333e-13

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000				
Model:	OLS	Adj. R-squared:	-0.003				
Method:	Least Squares	F-statistic:	0.02093				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.885				
Time:	20:56:20	Log-Likelihood:	-7497.9				
No. Observations:	315	AIC:	1.500e+04				
Df Residuals:	313	BIC:	1.501e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-6.152e+08	7.42e+08	-0.829	0.408	-2.08e+09	8.46e+08	
Real interest rate USA (%)	2.06e+07	1.42e+08	0.145	0.885	-2.6e+08	3.01e+08	
=====							
Omnibus:	260.169	Durbin-Watson:	1.830				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	19085.876				
Skew:	-2.752	Prob(JB):	0.00				
Kurtosis:	40.734	Cond. No.	13.4				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.047164822643786
LM P-Value: 0.21792977277595407
F Statistic: 1.523812765036013
F P-Value: 0.21949659645444716

Rainbow Test Results:

Rainbow Statistic: 2.7747174492197977
Rainbow P-Value: 2.2960405874546545e-10

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.010
Model:              OLS  Adj. R-squared:    0.005
Method:             Least Squares  F-statistic:    1.572
Date:               Sat, 26 Aug 2023  Prob (F-statistic):  0.211
Time:               20:56:21  Log-Likelihood:  -4593.3
No. Observations:   192  AIC:              9191.
Df Residuals:       190  BIC:              9197.
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err      z    P>|z|    [0.025    0.975]
-----
const          6.528e+08  7.18e+08   0.909   0.363  -7.54e+08  2.06e+09
Revenue (% of GDP) -5.515e+07  4.4e+07  -1.254   0.210  -1.41e+08  3.11e+07
=====
```

```
=====
Omnibus:          183.189  Durbin-Watson:      1.702
Prob(Omnibus):    0.000  Jarque-Bera (JB):    9443.481
Skew:             -3.195  Prob(JB):            0.00
Kurtosis:         36.758  Cond. No.            64.8
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 5.706290697692566
LM P-Value: 0.05766266614042792
F Statistic: 2.894593021693985
F P-Value: 0.057778045552029714

Rainbow Test Results:

Rainbow Statistic: 5.827440858980028
Rainbow P-Value: 3.472691340494022e-16

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.007				
Model:	OLS	Adj. R-squared:	0.003				
Method:	Least Squares	F-statistic:	1.412				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.236				
Time:	20:56:21	Log-Likelihood:	-5780.5				
No. Observations:	245	AIC:	1.156e+04				
Df Residuals:	243	BIC:	1.157e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	2.286e+08	2.05e+08	1.115	0.265	-1.73e+08	6.3e+08	
Short-term debt (% of total external debt)	-3.014e+07	2.54e+07	-1.188	0.235	-7.99e+07	1.96e+07	
=====							
Omnibus:	112.925	Durbin-Watson:	1.427				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	14449.071				
Skew:	-0.643	Prob(JB):	0.00				
Kurtosis:	40.600	Cond. No.	22.4				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 9.360147326261448
LM P-Value: 0.009278330391026327
F Statistic: 4.8063933737294295
F P-Value: 0.0089743218066083

Rainbow Test Results:

Rainbow Statistic: 4.014599521516694
Rainbow P-Value: 1.0144479901112227e-13

Regression Summary:

OLS Regression Results						
=====						
Dep. Variable:	Sum_GDPcycle	R-squared:	0.000			
Model:	OLS	Adj. R-squared:	-0.005			
Method:	Least Squares	F-statistic:	0.0001476			
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.990			
Time:	20:56:21	Log-Likelihood:	-5017.6			
No. Observations:	212	AIC:	1.004e+04			
Df Residuals:	210	BIC:	1.005e+04			
Df Model:	1					
Covariance Type:	nonrobust					
=====						
	coef	std err	t	P> t	[0.025	0.975]

const	-9.515e+07	3.18e+08	-0.299	0.765	-7.22e+08	5.32e+08
Short-term debt (% of total reserves)	-106.6327	8777.509	-0.012	0.990	-1.74e+04	1.72e+04
=====						
Omnibus:	102.706	Durbin-Watson:	1.380			
Prob(Omnibus):	0.000	Jarque-Bera (JB):	9436.965			
Skew:	-0.794	Prob(JB):	0.00			
Kurtosis:	35.647	Cond. No.	3.63e+04			
=====						

Notes:

[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

[2] The condition number is large, 3.63e+04. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 0.03883289318417793
LM P-Value: 0.9807708385112339
F Statistic: 0.01914519245735784
F P-Value: 0.9810386330483198

Rainbow Test Results:

Rainbow Statistic: 4.397045270335976
Rainbow P-Value: 2.1563569042845806e-13

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.025
Model:              OLS  Adj. R-squared:    0.021
Method:            Least Squares  F-statistic:    0.1325
Date:              Sat, 26 Aug 2023  Prob (F-statistic):    0.716
Time:              20:56:22  Log-Likelihood:    -6417.5
No. Observations:    269  AIC:              1.284e+04
Df Residuals:        267  BIC:              1.285e+04
Df Model:            1
Covariance Type:      HC3
=====
```

```
=====
              coef  std err          z      P>|z|      [0.025      0.975]
-----
const    -7.338e+08  5.2e+08    -1.410    0.159   -1.75e+09   2.86e+08
TRes      0.0502    0.138     0.364    0.716    -0.220    0.321
=====
```

```
=====
Omnibus:      265.183  Durbin-Watson:      1.845
Prob(Omnibus):    0.000  Jarque-Bera (JB):    15891.729
Skew:           -3.676  Prob(JB):      0.00
Kurtosis:        39.929  Cond. No.      1.89e+10
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

[2] The condition number is large, 1.89e+10. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 39.88992891566361
LM P-Value: 2.686850051044082e-10
F Statistic: 46.48687406046698
F P-Value: 6.135702064629281e-11

Rainbow Test Results:

Rainbow Statistic: 2.640992249153682
Rainbow P-Value: 2.0653528030190295e-08

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002						
Model:	OLS	Adj. R-squared:	-0.002						
Method:	Least Squares	F-statistic:	0.2404						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.624						
Time:	20:56:22	Log-Likelihood:	-5226.1						
No. Observations:	221	AIC:	1.046e+04						
Df Residuals:	219	BIC:	1.046e+04						
Df Model:	1								
Covariance Type:	HC3								
=====									
		coef	std err	z	P> z	[0.025	0.975]		

const		-3.708e+08	3.66e+08	-1.012	0.311	-1.09e+09	3.47e+08		
Total debt service (% of exports of goods, services and primary income)		1.584e+07	3.23e+07	0.490	0.624	-4.75e+07	7.92e+07		
=====									
Omnibus:	114.143	Durbin-Watson:	1.415						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10805.753						
Skew:	-0.954	Prob(JB):	0.00						
Kurtosis:	37.203	Cond. No.	34.3						
=====									

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 7.116027802582759
LM P-Value: 0.028495363154100214
F Statistic: 3.6264850634323813
F P-Value: 0.028227372148257393

Rainbow Test Results:

Rainbow Statistic: 4.083353158953945
Rainbow P-Value: 8.94914163521859e-13

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.007				
Model:	OLS	Adj. R-squared:	0.003				
Method:	Least Squares	F-statistic:	1.630				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.203				
Time:	20:56:23	Log-Likelihood:	-5732.0				
No. Observations:	240	AIC:	1.147e+04				
Df Residuals:	238	BIC:	1.147e+04				
Df Model:	1						
Covariance Type:	nonrobust						
=====							
	coef	std err	t	P> t	[0.025	0.975]	

const	-1.243e+09	5.89e+08	-2.111	0.036	-2.4e+09	-8.31e+07	
Total reserves in months of imports	1.669e+08	1.31e+08	1.277	0.203	-9.06e+07	4.24e+08	
=====							
Omnibus:	216.310	Durbin-Watson:	1.655				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	11071.918				
Skew:	-3.118	Prob(JB):	0.00				
Kurtosis:	35.685	Cond. No.	7.39				
=====							

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 0.25950935161988653
LM P-Value: 0.8783108753967347
F Statistic: 0.1282714408558519
F P-Value: 0.879675608125186

Rainbow Test Results:

Rainbow Statistic: 3.7501305367378635
Rainbow P-Value: 1.9116640169665514e-12

Regression Summary:

OLS Regression Results

```
=====
Dep. Variable:      Sum_GDPcycle  R-squared:      0.003
Model:              OLS  Adj. R-squared:    -0.001
Method:             Least Squares  F-statistic:    0.7008
Date:               Sat, 26 Aug 2023  Prob (F-statistic):    0.403
Time:               20:56:23  Log-Likelihood:    -6283.0
No. Observations:   263  AIC:              1.257e+04
Df Residuals:       261  BIC:              1.258e+04
Df Model:           1
Covariance Type:    HC3
=====
```

```
=====
              coef  std err      z  P>|z|  [0.025  0.975]
-----
const      3.518e+07  1.02e+09   0.034  0.973  -1.97e+09  2.04e+09
Trade (% of GDP) -8.663e+06  1.03e+07  -0.837  0.403  -2.89e+07  1.16e+07
=====
```

```
=====
Omnibus:      211.064  Durbin-Watson:      1.817
Prob(Omnibus): 0.000  Jarque-Bera (JB):    11228.316
Skew:         -2.619  Prob(JB):      0.00
Kurtosis:     34.579  Cond. No.      184.
=====
```

Notes:

[1] Standard Errors are heteroscedasticity robust (HC3)

White Test Results:

LM Statistic: 6.7397351610180465
LM P-Value: 0.0343941915032677
F Statistic: 3.4190457560124488
F P-Value: 0.034222984456997535

Rainbow Test Results:

Rainbow Statistic: 2.868235592996899
Rainbow P-Value: 2.256345075276021e-09

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002						
Model:	OLS	Adj. R-squared:	-0.003						
Method:	Least Squares	F-statistic:	0.3885						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.534						
Time:	20:56:24	Log-Likelihood:	-5043.2						
No. Observations:	211	AIC:	1.009e+04						
Df Residuals:	209	BIC:	1.010e+04						
Df Model:	1								
Covariance Type:	nonrobust								
=====									
		coef	std err	t	P> t	[0.025	0.975]		

const		-4.291e+08	6.63e+08	-0.647	0.518	-1.74e+09	8.77e+08		
Unemployment, total (% of total labor force) (modeled ILO estimate)		-4.408e+07	7.07e+07	-0.623	0.534	-1.84e+08	9.53e+07		
=====									
Omnibus:	202.523	Durbin-Watson:	1.723						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	10613.785						
Skew:	-3.325	Prob(JB):	0.00						
Kurtosis:	37.103	Cond. No.	15.6						
=====									

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.8759123713545023
LM P-Value: 0.14399795431149026
F Statistic: 1.9461516583410594
F P-Value: 0.14541456925558785

Rainbow Test Results:

Rainbow Statistic: 5.9581614737186355
Rainbow P-Value: 5.945018371340218e-18

Regression Summary:

OLS Regression Results									
=====									
Dep. Variable:	Sum_GDPcycle	R-squared:	0.002						
Model:	OLS	Adj. R-squared:	-0.006						
Method:	Least Squares	F-statistic:	0.2874						
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.593						
Time:	20:56:24	Log-Likelihood:	-2864.2						
No. Observations:	119	AIC:	5732.						
Df Residuals:	117	BIC:	5738.						
Df Model:	1								
Covariance Type:	nonrobust								
=====									
		coef	std err	t	P> t	[0.025	0.975]		

const		-5.238e+08	1e+09	-0.521	0.603	-2.51e+09	1.47e+09		
Unemployment, total (% of total labor force) (national estimate)									
		-4.951e+07	9.24e+07	-0.536	0.593	-2.32e+08	1.33e+08		
=====									
Omnibus:	95.529	Durbin-Watson:	1.882						
Prob(Omnibus):	0.000	Jarque-Bera (JB):	2791.399						
Skew:	-2.136	Prob(JB):	0.00						
Kurtosis:	26.339	Cond. No.	17.3						
=====									

Notes:
[1] Standard Errors assume that the covariance matrix of the errors is correctly specified.

White Test Results:

LM Statistic: 3.8456179009000113
LM P-Value: 0.14619572827625307
F Statistic: 1.9369287923428855
F P-Value: 0.14877962483519327

Rainbow Test Results:

Rainbow Statistic: 5.016988092762715
Rainbow P-Value: 3.0802647019166438e-09

Regression Summary:

OLS Regression Results							
=====							
Dep. Variable:	Sum_GDPcycle	R-squared:	0.004				
Model:	OLS	Adj. R-squared:	-0.000				
Method:	Least Squares	F-statistic:	0.03755				
Date:	Sat, 26 Aug 2023	Prob (F-statistic):	0.847				
Time:	20:56:24	Log-Likelihood:	-5451.9				
No. Observations:	231	AIC:	1.091e+04				
Df Residuals:	229	BIC:	1.091e+04				
Df Model:	1						
Covariance Type:	HC3						
=====							
	coef	std err	z	P> z	[0.025	0.975]	

const	-2.078e+08	4.91e+08	-0.423	0.672	-1.17e+09	7.55e+08	
Use of IMF credit (DOD, current US\$)	0.4753	2.453	0.194	0.846	-4.332	5.283	
=====							
Omnibus:	141.859	Durbin-Watson:	1.372				
Prob(Omnibus):	0.000	Jarque-Bera (JB):	15946.851				
Skew:	-1.358	Prob(JB):	0.00				
Kurtosis:	43.613	Cond. No.	7.04e+08				
=====							

Notes:
[1] Standard Errors are heteroscedasticity robust (HC3)
[2] The condition number is large, 7.04e+08. This might indicate that there are strong multicollinearity or other numerical problems.

White Test Results:

LM Statistic: 44.30857647878397
LM P-Value: 2.80484698193708e-11
F Statistic: 54.349920431606954
F P-Value: 3.0386907963433862e-12

Rainbow Test Results:

Rainbow Statistic: 5.1014175784284
Rainbow P-Value: 7.739032205275926e-17